



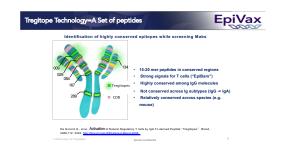
√ Have Tregitopes been in the clinic?

√ What's the EpiVax plan for Tregitopes?

✓ Tregitopes – what are they?
 ✓ Pre-clinical studies with Tregitopes...
 ✓ Have Tregitopes been in the clinic?
 ✓ What's the EpiVax plan for Tregitopes?

Outline



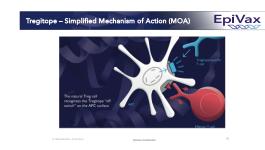
















Tregitopes may explain (one) IVIG mechanism of action



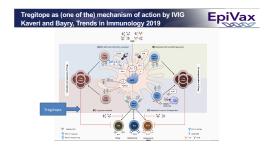
Kaveri and Bayry, Trends in Immunology IVIg Review

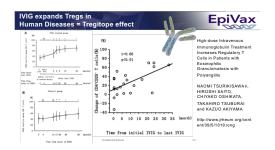
Tregitope as one of the MOA of IVIG

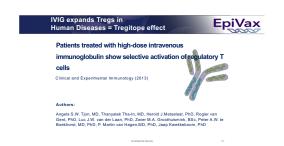
Trends in Immunology

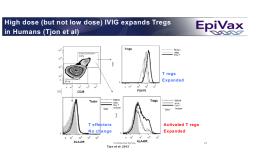
Forum

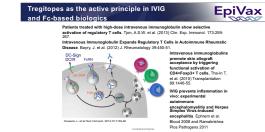
Circulating Normal
IgG as Silmulator of Regulatory T Cells:
Lessors from
Intravenous
Intrave





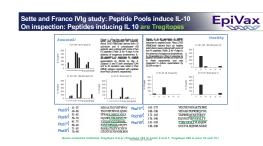




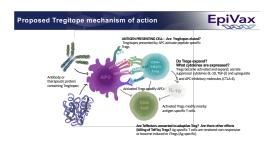


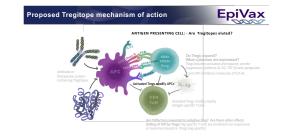


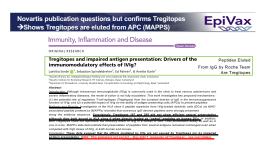






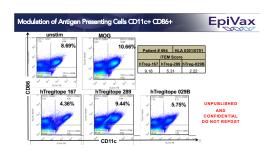


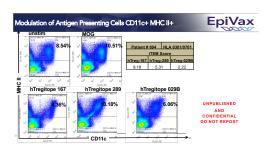


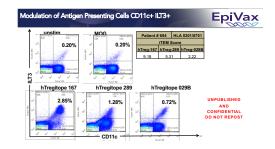


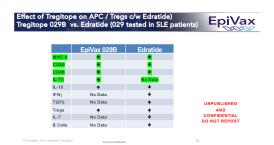


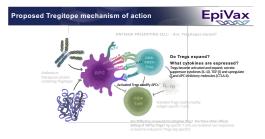


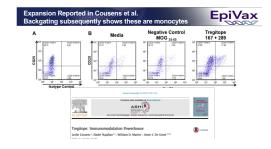


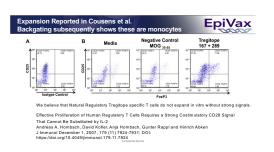


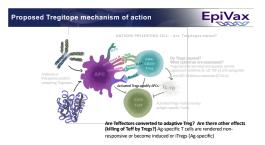


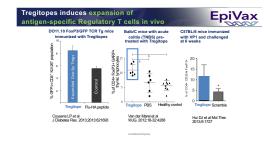


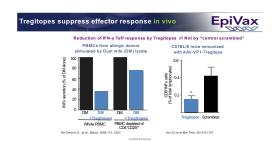


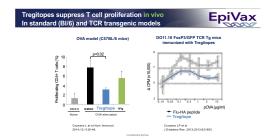












Tregitope effect in the Tetanus Toxoid Bystander Assay

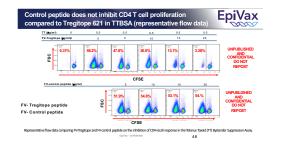
EpiVax

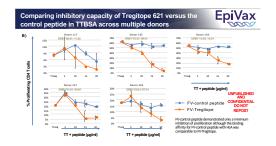
- 1. Have we tested a control peptide to compare with Tregitope in HLA-DR binding and TTBSA ?
- 2. Does Tregitope also have an effect on CD8 T cells? (no MHC competition)
- 3. Is there any competition for binding of Tregitope for their inhibitory effect?

EpiVax Addressing concerns about "competition" as potential cause of decreased T effector response 1. Have we tested a control peptide to compare with Tregitope in HLA-DR binding and TTBSA?

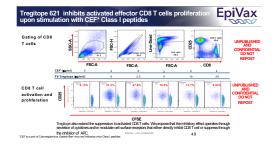
EpiVax Addressing concerns about "competition" was determined invitro and ICSO values calculated for the FV-control peptide and the Tregitope 621. Both peptides bind to the alleles tested (DRB1*01:01, *03:01, *04:01, *07:01, *11:01, *13:01 and *15:01). Color coding reflects binding affinity (extrapolated to ICS0) as determined by performing in a seven-point assay using a validated control.

Note that both FV-Tregitope and FV-control peptide demonstrated high binding and low ICS0's to nearly all HLAs tested. Comparing the HLA-DRB1 binding of Tregitope 621 and control peptide 3/5/19

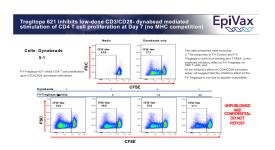












Outline



- √ Tregitopes what are they?
- ✓ Pre-clinical studies with Tregitopes...
- √ Have Tregitopes been in the clinic?
- √ What's the EpiVax plan for Tregitopes?

Clinical applications of Tregitopes

Model systems

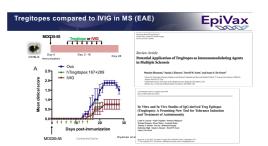
- Autoimmune diseases
 Transplantation
- 3. Inflammatory Bowel Disease
- Enzyme Replacement Therapy
 ASATI : Allergy

EpiVax

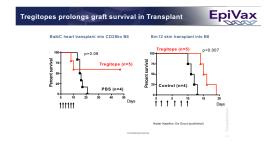
Tregitope validation in vivo **EpiVax** TID TID

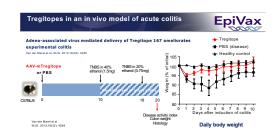
Tregitope validation checklist **EpiVax**

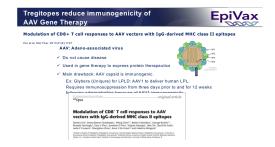
- ✓ Tregitopes induce adaptive tolerance in C57BI/6, D011.10, OTII
- ✓ Tregitopes suppress/treat diabetes in NOD model (Scott/EpiVax)
- ✓ Tregitopes suppress transplant rejection in CD28 KO mice (Najafian)
- √ Tregitopes suppression = IVIG in OVA/Allergy Model (Mazer)
- ✓ Tregitopes suppress immune responses to AAV capsid (Mingozzi)
- ✓ Tregitopes suppress immune responses to GAA (Myozyme) (Koeberl)
- √ Tregitopes cause expansion of Tregs iTreg + nTreg (Cousens)

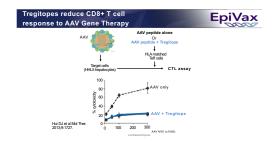


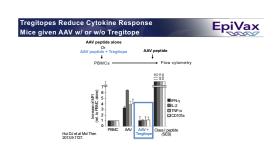


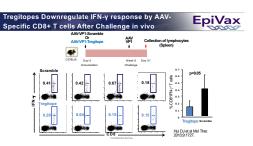


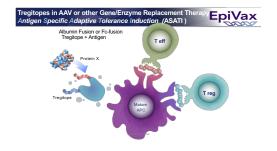


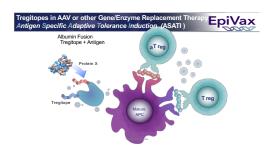




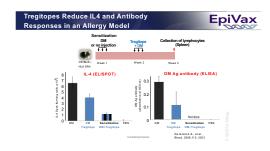


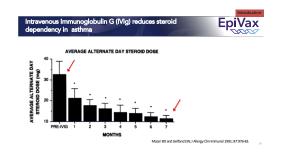


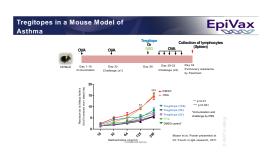


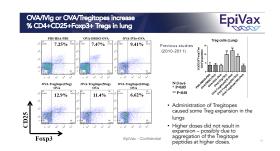










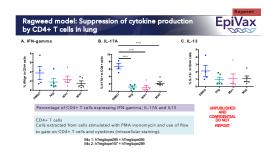


Tregitope treatment with Allergen
Do Tregitopes abrogate allergy responses?

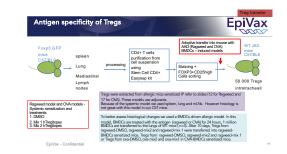
Matiene Dambele PhD
Buce Mazer MD
MGBI University

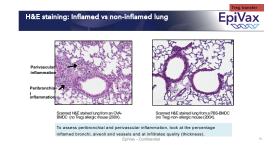
EpiVax





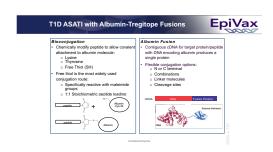
Treg Transfer Experiment
Test for antigen-specificity of Tregs in-vivo

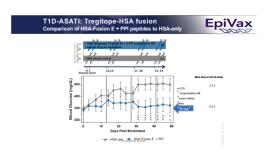


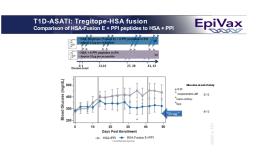














- √ Tregitopes what are they?
- ✓ Mechanism of Action
- ✓ Pre-clinical studies with Tregitopes...

✓ Have Tregitopes been in the clinic?

√ What's the EpiVax plan for Tregitopes?

